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Relevance scale ☐ ☐ ☐ ☐ ☐**1 File servers for network-based distributed systems**

Liba Svobodova

December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4**Publisher:** ACM PressFull text available: [pdf\(4.23 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)**2 Reliability and security of RAID storage systems and D2D archives using SATA disk drives**

Gordon F. Hughes, Joseph F. Murray

February 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 1**Publisher:** ACM PressFull text available: [pdf\(94.82 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Information storage reliability and security is addressed by using personal computer disk drives in enterprise-class nearline and archival storage systems. The low cost of these serial ATA (SATA) PC drives is a tradeoff against drive reliability design and demonstration test levels, which are higher in the more expensive SCSI and Fibre Channel drives. This article discusses the tradeoff between SATA which has the advantage that fewer higher capacity drives are needed for a given system storage c ...

Keywords: Disk drive, SATA, SMART, archival storage, failure prediction, secure erase, storage resource management, storage systems architecture

3 Data access: Improving mobile database access over wide-area networks without degrading consistency

Niraj Tolia, M. Satyanarayanan, Adam Wolbach

June 2007 **Proceedings of the 5th international conference on Mobile systems, applications and services MobiSys '07****Publisher:** ACM PressFull text available: [pdf\(486.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We report on the design, implementation, and evaluation of a system called *Cedar* that enables mobile database access with good performance over low-bandwidth networks.

This is accomplished without degrading consistency. Cedar exploits the disk storage and processing power of a mobile client to compensate for weak connectivity. Its central organizing principle is that even a stale client replica can be used to reduce data transmission volume from a database server. The reduction is achi ...

Keywords: bandwidth optimization, content addressable storage, database caching, low bandwidth networks, mobile database access, relational database systems, wide area networks, wireless networks

4 Classics in software engineering

January 1979 Divisible Book

Publisher: Yourdon Press

Additional Information: [full citation](#), [cited by](#), [index terms](#)

5 Artificial intelligence

Elaine Rich

January 1983 Book

Publisher: McGraw-Hill, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [review](#)

The goal of this book is to provide programmers and computer scientists with a readable introduction to the problems and techniques of artificial intelligence (A.I.). The book can be used either as a text for a course on A.I. or as a self-study guide for computer professionals who want to learn what A.I. is all about.

The book was designed as the text for a one-semester, introductory graduate course in A.I. In such a course, it should be possible to cover all of the material in the boo ...

6 Constructing collaborative desktop storage caches for large scientific datasets

Sudharshan S. Vazhkudai, Xiaosong Ma, Vincent W. Freeh, Jonathan W. Strickland, Nandan Tammineedi, Tyler Simon, Stephen L. Scott

August 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 3

Publisher: ACM Press

Full text available: [pdf\(833.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

High-end computing is suffering a *data deluge* from experiments, simulations, and apparatus that creates overwhelming application dataset sizes. This has led to the proliferation of high-end mass storage systems, storage area clusters, and data centers. These storage facilities offer a large range of choices in terms of capacity and access rate, as well as strong data availability and consistency support. However, for most end-users, the "last mile" in their analysis pipeline o ...

Keywords: Distributed storage, parallel I/O, scientific data management, serverless storage system, storage cache, storage networking, storage resource management, storage scavenging, striped storage

7 Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona

Thomas Haigh


January 2006 **ACM Oral History interviews**

Publisher: ACM Press

Full text available: [pdf\(761.66 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during World War II. After his discharge from the military, Bachman earned a B.Sc. in Mechanical Engineering in 1948, followed immediately by an M.Sc. in the same discipline, from the University of Pennsylvania. On graduation, he went to work for Do ...

8 A taxonomy of Data Grids for distributed data sharing, management, and processing

 Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao
June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.70 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

9 Data base directions: the next steps

 John L. Berg
November 1976 **ACM SIGMOD Record**, **ACM SIGMIS Database**, Volume 8, 8 Issue 4, 2

Publisher: ACM Press

Full text available:  pdf(9.95 MB) Additional Information: [full citation](#), [abstract](#), [citations](#)


What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

10 An end-to-end approach to globally scalable network storage

 Micah Beck, Terry Moore, James S. Plank
August 2002 **ACM SIGCOMM Computer Comm unication Review**, **Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '02**, Volume 32 Issue 4

Publisher: ACM Press

Full text available:  pdf(286.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper discusses the application of end-to-end design principles, which are characteristic of the architecture of the Internet, to network storage. While putting storage into the network fabric may seem to contradict end-to-end arguments, we try to show not only that there is no contradiction, but also that adherence to such an approach is the key to achieving true scalability of shared network storage. After discussing end-to-end arguments with respect to several properties of network stora ...


Keywords: IBP, asynchronous communications, end-to-end design, exNode, internet backplane protocol, logistical networking, network storage, scalability, store and forward network, wide area storage

11 Antiquity: exploiting a secure log for wide-area distributed storage

Hakim Weatherspoon, Patrick Eaton, Byung-Gon Chun, John Kubiatawicz

March 2007 **ACM SIGOPS Operating Systems Review , Proceedings of the ACM SIGOPS/EuroSys European Conference on Computer Systems 2007 EuroSys '07**, Volume 41 Issue 3

Publisher: ACM

Full text available:  [pdf\(584.64 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Antiquity is a wide-area distributed storage system designed to provide a simple storage service for applications like file systems and back-up. The design assumes that all servers eventually fail and attempts to maintain data despite those failures. Antiquity uses a secure log to maintain data integrity, replicates each log on multiple servers for durability, and uses dynamic Byzantine fault-tolerant quorum protocols to ensure consistency among replicas. We present Antiquity's design and an ...

Keywords: archival storage systems, data durability, data integrity, distributed storage system, wide-area

12 Secure paths: Designing a secure reliable file system for sensor networks

Neerja Bhatnagar, Ethan L. Miller

October 2007 **Proceedings of the 2007 ACM workshop on Storage security and survivability StorageSS '07**

Publisher: ACM

Full text available:  [pdf\(302.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wireless sensor networks are increasingly being used to monitor habitats, analyze traffic patterns, study troop movements, and gather data for reconnaissance and surveillance missions. Many wireless sensor networks require the protection of their data from unauthorized access and malicious tampering, motivating the need for a secure and reliable file system for sensor nodes. The file system presented in this paper encrypts data stored on sensor nodes' local storage in such a way that an intruder ...

Keywords: reliable, secure, sensor network file system

13 General storage protection techniques: The evolution of storage service providers: techniques and challenges to outsourcing storage

Ragib Hasan, William Yurcik, Suvda Myagmar

November 2005 **Proceedings of the 2005 ACM workshop on Storage security and survivability StorageSS '05**

Publisher: ACM Press

Full text available:  [pdf\(171.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


As enterprise storage needs grow, it is challenging to manage storage systems. The costs of locally managing, supporting, and maintaining resilience in storage systems has skyrocketed. Also, companies must comply with a growing number of federal and state legislations mandating secure handling of electronic information. In this context, outsourcing of storage to utility-model based service providers has emerged as a popular and often cost-effective option. However, this raises issues related to d ...

Keywords: data protection, outsourcing, storage service provider

14 Conference abstracts

January 1977 **Proceedings of the 5th annual ACM computer science conference CSC '77**

Publisher: ACM Press

Full text available:  [pdf\(3.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

15 Strategic directions in storage I/O issues in large-scale computing

Garth A. Gibson, Jeffrey Scott Vitter, John Wilkes

December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(465.35 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 Manufacturing resource planning on a PC local area network

H. Clark Kee, Roy L. Post

May 1986 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL APL '86**, Volume 16 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.47 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)


This paper details a large APL programming project of 12 man years. An integrated software system structured on the principles of MRP (manufacturing resource planning) was implemented by a Bristol-Myers in house team for use in a new manufacturing facility. The system applies off-the-shelf technology in innovative ways, using STSC APL*PLUS/PC as the only programming language, to build a very sophisticated application on IBM/PCs fully sharing data in a secure environment via the N ...

17 Samsara: honor among thieves in peer-to-peer storage

Landon P. Cox, Brian D. Noble

October 2003 **ACM SIGOPS Operating Systems Review , Proceedings of the nineteenth ACM symposium on Operating systems principles SOSP '03**, Volume 37 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(290.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Peer-to-peer storage systems assume that their users consume resources in proportion to their contribution. Unfortunately, users are unlikely to do this without some enforcement mechanism. Prior solutions to this problem require centralized infrastructure, constraints on data placement, or ongoing administrative costs. All of these run counter to the design philosophy of peer-to-peer systems. *Samsara* enforces fairness in peer-to-peer storage systems without requiring trusted third parties, ...


Keywords: distributed accounting, peer-to-peer storage systems

18 Computer Communication Networks: Approaches, Objectives, and Performance**Considerations**

Stephen R. Kimbleton, G. Michael Schneider

September 1975 **ACM Computing Surveys (CSUR)**, Volume 7 Issue 3**Publisher:** ACM PressFull text available:  pdf(3.99 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**19 A survey on peer-to-peer key management for mobile ad hoc networks**

Johann Van Der Merwe, Dawoud Dawoud, Stephen McDonald

April 2007 **ACM Computing Surveys (CSUR)**, Volume 39 Issue 1**Publisher:** ACM PressFull text available:  pdf(872.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The article reviews the most popular peer-to-peer key management protocols for mobile ad hoc networks (MANETs). The protocols are subdivided into groups based on their design strategy or main characteristic. The article discusses and provides comments on the strategy of each group separately. The discussions give insight into open research problems in the area of pairwise key management.

Keywords: Mobile ad hoc networks, pairwise key management, peer-to-peer key management, security

20 Facial modeling and animation

Jörg Haber, Demetri Terzopoulos

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04****Publisher:** ACM PressFull text available:  pdf(18.15 MB) Additional Information: [full citation](#), [abstract](#)

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

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